## In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Currently Amended) A flexible circuit comprising: 1. 1
- a <u>flexible planar</u> substrate having a topside, and a plane; 2
- a flexible and extensible structure formed within and originating as part of said 3
- flexible planar substrate [[and]] , said structure being co-planar with said substrate, said structure
- having a structure topside; 5
- an insulated capillary formed on said structure for transferring a fluid; and 6
- wherein said structure is extendable out of said plane by a distance greater than a 7
- maximum lateral dimension of said structure, such that said structure topside continues to face in a 8
- general topside direction. 9
- 2-3. (Cancelled) 1

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- (Withdrawn) The flexible circuit according to Claim 2, wherein said pathway is an 4. 1 electrical lead for transferring an electronic signal.
- 5. (Withdrawn) The flexible circuit according to Claim 2, wherein said pathway is an 1
- electrical lead for transferring an electrical signal. 2
- (Withdrawn) The flexible circuit according to Claim 2, wherein said pathway is an 6. 1
- optical fiber for transferring an optical signal. 2
- (Withdrawn) The flexible circuit according to Claim 6, wherein bending radii of said **7**. 1
- optical fiber are large enough to prevent substantial optical loss from said optical fiber. 2

- (Original) The flexible circuit according to Claim 1, wherein said structure is a spiral. 8. 1
- (Original) The flexible circuit according to Claim 8, wherein said spiral is an 9. 1 Archimedes spiral.
- (Original) The flexible circuit according to Claim 8, wherein said spiral is a parabolic 10. 1
- spiral. 2

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- (Original) The flexible circuit according to Claim 8, wherein said spiral is a polygonal 11. 1
- spiral.

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- (Original) The flexible circuit according to Claim 11, wherein said spiral is one of a 12. 1
- square spiral, a triangular spiral, a pentagonal spiral and a hexagonal spiral. 2
- (Original) The flexible circuit according to Claim 1, wherein said structure has: 13. 1
  - geometric features selected from a group comprising spiral, bend, curve, twist, turn, curl, loop, u-
- turn and zig-zag. 3
- (Previously Presented) The flexible circuit according to Claim 1, wherein said 14.
- structure is defined by dashed perforations. 2
- (Original) The flexible circuit according to Claim 1, wherein said structure comprises 15. 1
- a boss for receiving a force to extend said structure out of said plane. 2
- (Previously Presented) The flexible circuit according to Claim 1 further comprising at 16. 1
- least a first insulated pathway and a second insulated pathway. 2

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- 17. (Currently Amended) A flexible circuit comprising:
- a <u>flexible</u> substrate having a plane;
- a flexible and extensible structure formed within and as part of said substrate and co-
- 4 planar with said substrate, said flexible and extensible structure includes a topside and is extendable
- out of said plane by a distance greater than a maximum lateral dimension of said structure such that
- said topside remains facing in a general topside direction; and
- an insulated capillary for transferring a fluid on said structure.
- 1 18. (Cancelled)
- 1 19. (Withdrawn) The flexible circuit according to Claim 17, wherein said pathway is an electrical lead for transferring an electronic signal.
- 20. (Withdrawn) The flexible circuit according to Claim 17, wherein said insulated pathway is an optical fiber for transferring an optical signal.
- 21. (Withdrawn) The flexible circuit according to Claim 20, wherein bending radii of said optical fiber are large enough to prevent substantial optical loss from said optical fiber.
- 22. (Original) The flexible circuit according to Claim 17, wherein said structure is a spiral.
- 2 is an Archimedes spiral.

- 24. (Original) The flexible circuit according to Claim 22, wherein said spiral is a
- 2 parabolic spiral.
- 25. (Original) The flexible circuit according to Claim 22, wherein said spiral is a
- 2 polygonal spiral.
- 1 26. (Original) The flexible circuit according to Claim 25, wherein said spiral is one of a
- square spiral, a triangular spiral, a pentagonal spiral and a hexagonal spiral.
- 27. (Original) The flexible circuit according to Claim 17, wherein said structure has
- 2 geometric features selected from a group comprising spiral, bend, curve, twist, turn, curl, loop, u-
- 3 turn and zig-zag.
- 1 28. (Previously Presented) The flexible circuit according to Claim 17, wherein said
- 2 structure is defined by dashed perforations.
- 1 29. (Previously Presented) The flexible circuit according to Claim 17, wherein said
- 2 structure comprises a boss for receiving a force to extend said structure out of said plane.
- 1 30. (Previously Presented) The flexible circuit according to Claim 17 further comprising
- 2 a second insulated pathway on said structure.
- 1 31-36. (Cancelled)
- 1 37. (Currently Presented) A flexible circuit comprising:
- a <u>flexible planar</u> substrate having a plane;

3	a flexible and extensible structure formed within and as part of	said substrate and eo-
4	planar with said substrate, said structure having a top side;	
5	a capillary for transferring fluid on said structure: and	
6	wherein said structure is extendable substantially perpendicula	er to said plane within
7	the region defined by said plane, such that said top side remains facing in a gen	neral topside direction.
1	38. (Previously Presented) The flexible circuit according to Claim	37 further comprising
2	an insulated pathway formed on said structure.	

39. (Previously Presented) The flexible circuit according to Claim 37, wherein said structure is a spiral.